10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TNFRSF11B antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16167

Specification

TNFRSF11B antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	O00300
Other Accession	NM_002546, NP_002537
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46kDa KDa**

TNFRSF11B antibody - N-terminal region - Additional Information

Gene ID 4982

Alias Symbol	**OPG, TR1, OCIF**

Other Names
Tumor necrosis factor receptor superfamily member 11B, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TNFRSF11B, OCIF, OPG

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 100 ul of distilled water. Final anti-TNFRSF11B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
TNFRSF11B antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

TNFRSF11B antibody - N-terminal region - Protein Information

Name TNFRSF11B

Synonyms OCIF, OPG

Function
Acts as a decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for

TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

Cellular Location
Secreted.

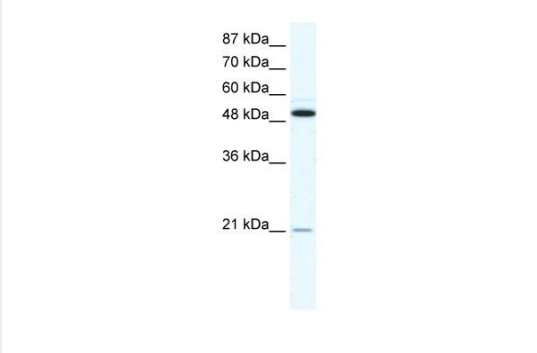
Tissue Location
Highly expressed in adult lung, heart, kidney, liver, spleen, thymus, prostate, ovary, small intestine, thyroid, lymph node, trachea, adrenal gland, testis, and bone marrow. Detected at very low levels in brain, placenta and skeletal muscle. Highly expressed in fetal kidney, liver and lung

TNFRSF11B antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TNFRSF11B antibody - N-terminal region - Images



WB Suggested Anti-TNFRSF11B Antibody Titration: 1.25µg/ml
ELISA Titer: 1:312500
Positive Control: HepG2 cell lysate

TNFRSF11B antibody - N-terminal region - Background

Acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

TNFRSF11B antibody - N-terminal region - References

Simonet W.S.,et al.Cell 89:309-319(1997).
Yasuda H.,et al.Endocrinology 139:1329-1337(1998).

Morinaga T.,et al.Eur. J. Biochem. 254:685-691(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.